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**PATENT ABSTRACTS OF JAPAN**(21) Application number: **06089843**(51) Intl. Cl.: **E04C 2/04 B28B 1/50 B28B 23/02 C04B 38/02 E04C 2/06**(22) Application date: **27.04.94**

(30) Priority:

(43) Date of application  
publication: **07.11.95**(84) Designated contracting  
states:(71) Applicant: **SEKISUI CHEM CO LTD**(72) Inventor: **SAKOTA HIROMI  
NOZAKI ZENJI  
YAMAMOTO MASAHIITO**

(74) Representative:

**(54) EXTERNAL WALL  
PANEL AND PRODUCTION  
THEREOF**

(57) Abstract:

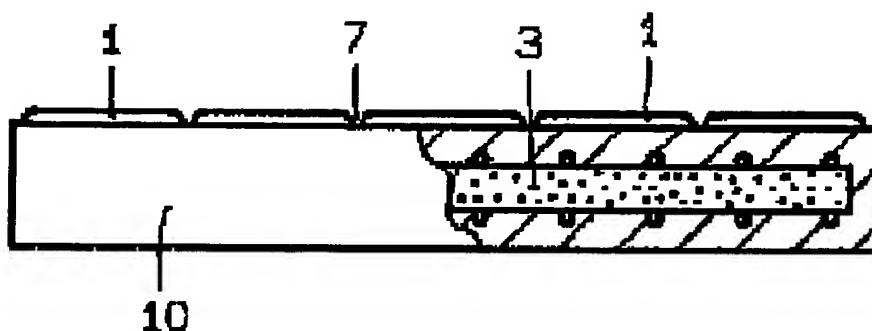
**PURPOSE:** To reduce the weight and increase the load-resistance, by laminating decoration materials and unify them on one side face of a base material obtained by foaming an inorganic foaming composition made of fly ash powder, alkali metal silicate, water and a foaming agent.

**CONSTITUTION:** A foaming inorganic composition is prepared, which is composed of 100 pts.wt. of fly ash powder containing 80% or more powder having 10µm or finer particle size, 0.2-450 pts.wt. of alkali metal silicate, 35-1500 pts.wt. of water and foaming agent. A decoration material 1 is placed upside down on the bottom of a lower mold and reinforcements are positioned in the upper mold. After the foaming inorganic composition has been charged on the rear face of the decoration material 1, the mold is

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closed and heated at 50-100°C to foam the composition. After curing, it is removed from the mold to form an external wall panel 10.

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**Title:** JP7292846A2: EXTERNAL WALL PANEL AND PRODUCTION THEREOF

**Derwent Title:** Exterior wall - comprises base material contg. fly ash powder, alkali metal silicate, water and blowing agent, with decorative and reinforcing materials  
[\[Derwent Record\]](#)

**Country:** JP Japan

**Kind:** A

**Inventor:** SAKOTA HIROMI;  
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YAMAMOTO MASAHIRO;

**Assignee:** SEKISUI CHEM CO LTD  
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**Priority Number:** 1994-04-27 JP1994000089843

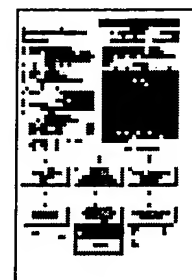
**Abstract:** PURPOSE: To reduce the weight and increase the load-resistance, by laminating decoration materials and unify them on one side face of a base material obtained by foaming an inorganic foaming composition made of fly ash powder, alkali metal silicate, water and a foaming agent.

CONSTITUTION: A foaming inorganic composition is prepared, which is composed of 100 pts.wt. of fly ash powder containing 80% or more powder having 10µm or finer particle size, 0.2-450 pts.wt. of alkali metal silicate, 35-1500 pts.wt. of water and foaming agent. A decoration material 1 is placed upside down on the bottom of a lower mold and reinforcements are positioned in the upper mold. After the foaming inorganic composition has been charged on the rear face of the decoration material 1, the mold is closed and heated at 50-100°C to foam the composition. After curing, it is removed from the mold to form an external wall panel 10.

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**Family:** None

**Other Abstract Info:** CHEMABS 124(08)095641A CAN124(08)095641A DERABS C96-017764 DERC96-017764



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